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NOTICE OF ALLOWANCE AND FEE(S) DUE

757

7590

02/02/2007

BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 EXAMINER

COLEMAN, ERIC

ART UNIT PAPER NUMBER

2183

DATE MAILED: 02/02/2007

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/858,308	05/15/2001	Zahid Najam	10736/9	3090

TITLE OF INVENTION: APPARATUS AND METHOD FOR INTERCONNECTING A PROCESSOR TO CO-PROCESSORS USING SHARED

MEMORY

	APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
+	nonprovisional	NO	\$1400	\$300	\$0	\$1700	05/02/2007

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

'THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.
- II. PART B FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

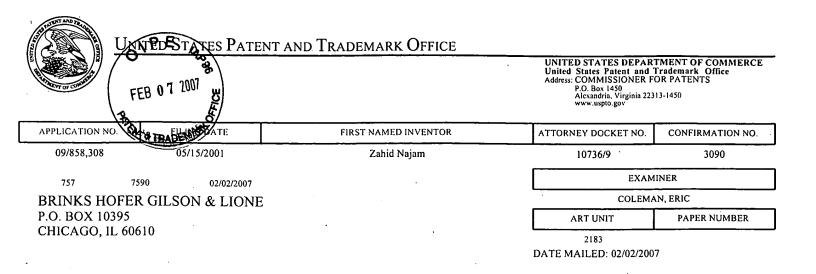
Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Pate

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTONS: This appropriate of further indicated unless some maintenance fee notification.	s fort hould be used espondence including to below or directed of ations.	for transmitting the IS ng the Patent, advance herwise in Block 1, by	SUE FEE and PUBLIC orders and notification (a) specifying a new of	CATION OF ITS	ON FEE (if requisions fees when the point of	ired). E vill be a and/or	Blocks 1 through 5 sl mailed to the current (b) indicating a sepa	hould be completed where correspondence address as arate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address			Note: A certificate of mailing can only be used Fee(s) Transmittal. This certificate cannot be used papers. Each additional paper, such as an assignment have its own certificate of mailing or transmission			icate cannot be used f	or any other accompanying	
757	•	2/2007 LONE			Cer	tificate	of Mailing or Trans	mission
P.O. BOX 1039 CHICAGO, IL		IONE		I her State addre trans	beby certify that the Postal Service we cased to the Mail mitted to the USP	is Fec(s vith suff Stop TO (57	s) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the d	g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.
								(Depositor's name)
								(Signature)
	•			<u></u>	·			(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	ITOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
09/858,308	05/15/2001		Zahid Najam				10736/9	3090
TITLE OF INVENTIC MEMORY	ON: APPARATUS ANI) METHOD FOR IN	TERCONNECTING A	PRC	OCESSOR TO C	Ö-PRO	CESSORS USING	SHARED
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE I	DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$300		\$0		\$1700	05/02/2007
EXAN	1INER	ART UNIT	CLASS-SUBCLASS	s				
COLEMA	AN, ERIC	2183	712-034000					
1. Change of correspond	ence address or indicatio	n of "Fee Address" (37	2. For printing on	the pa	atent front page, lis	it		
CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.		(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,						
"Fee Address" ind	lication (or "Fee Address 02 or more recent) attach	" Indication form	registered attorney	single y or ag t attor ill be p	gent) and the nam neys or agents. If printed.	es of up	o to e is 3	
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	N THE PATENT (print of	or type	e)			
PLEASE NOTE: Un recordation as set for	less an assignee is ident th in 37 CFR 3.11. Comp	ified below, no assigned	e data will appear on t	he pa	tent. If an assign	ee is id	entified below, the de	ocument has been filed for
(A) NAME OF ASSI	_	·	(B) RESIDENCE: (C	-	-	OUNT	RY)	•
Please check the appropr	riate assignce category or	categories (will not be	printed on the patent):		Individual 🔲 Co	rporati	on or other private gro	oup entity Government
4a. The following fee(s) Issue Fee	are submitted:		4b. Payment of Fee(s):		se first reapply ar	y prev	iously paid issue fee	shown above)
Publication Fee (N	No small entity discount p	permitted)	Payment by cred	it card				
Advance Order -	# of Copies		The Director is he overpayment, to I	ereby Depos	authorized to char	ge the r	equired fee(s), any de	ficiency, or credit any n extra copy of this form).
5. Change in Entity Sta	tus (from status indicated	d above)	· · · · · · · · · · · · · · · · · · ·				(0.0000 0.	ondu copy of this form).
	ns SMALL ENTITY statu						TITY status. See 37 CI	
NOTE: The Issue Fee an interest as shown by the	nd Publication Fee (if requeecords of the United Sta	uired) will not be accep tes Patent and Tradema	ted from anyone other the control of	han th	e applicant; a regi	stered a	ttorney or agent; or th	e assignee or other party in
Authorized Signature					Date			· · · · · · · · · · · · · · · · · · ·
Typed or printed nam	ie	·			Registration N	o	,	
This collection of inform an application. Confiden submitting the complete this form and/or suggest	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this but	FR 1.311. The informa U.S.C. 122 and 37 CF USPTO. Time will va rden, should be sent to	tion is required to obtain R 1.14. This collection in ry depending upon the the Chief Information C	n or re is esti- indivi Officer	etain a benefit by the mated to take 12 r dual case. Any co r, U.S. Patent and	he publi ninutes mments Tradem	ic which is to file (and to complete, includin s on the amount of tin ark Office, U.S. Depa	by the USPTO to process) g gathering, preparing, and ne you require to complete artment of Commerce, P.O.

Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

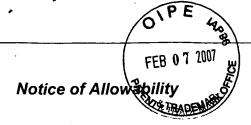
(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 459 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 459 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.



 Application No.	Applicant(s)
09/858,308	NAJAM ET AL.
Examiner	Art Unit
Eric Coleman	2183

E	ric Coleman 2183	
All claims being allowable, PROSECUTION ON THE MERITS IS (Ol herewith (or previously mailed), a Notice of Allowance (PTOL-85) or NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHT of the Office or upon petition by the applicant. See 37 CFR 1.313 are	other appropriate communication will be mailed in due co ITS. This application is subject to withdrawal from issue and MPEP 1308.	ourse. THIS
1. This communication is responsive to <u>amendment filed 11/17/0</u>	<u>06</u> .	
2. The allowed claim(s) is/are <u>1-7,9-17,19-30 and 32-45</u> .		
3. Acknowledgment is made of a claim for foreign priority unde	r 35 U.S.C. § 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some* c) ☐ None of the:		
1. Certified copies of the priority documents have be	en received.	
2. Certified copies of the priority documents have be		
	nents have been received in this national stage applicatio	n from the
International Bureau (PCT Rule 17.2(a)).	iona navo ocon roccivos in ano national otago applicatio	
	·	
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of a noted below. Failure to timely comply will result in ABANDONMEN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	his communication to file a reply complying with the requi T of this application.	rements
4. A SUBSTITUTE OATH OR DECLARATION must be submitted INFORMAL PATENT APPLICATION (PTO-152) which gives it		TICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") must be	e submitted.	
(a) ☐ including changes required by the Notice of Draftsperson		
1) hereto or 2) to Paper No./Mail Date	o valous pranting violet (1 violetie) attached	
(b) ☐ including changes required by the attached Examiner's A	mandment / Comment or in the Office action of	
Paper No./Mail Date	The idition of the office action of	
Identifying indicia such as the application number (see 37 CFR 1.84 each sheet. Replacement sheet(s) should be labeled as such in the		ack) of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FO 	of BIOLOGICAL MATERIAL must be submitted. No R THE DEPOSIT OF BIOLOGICAL MATERIAL.	te the
•		
Attack mont/o)	•	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. Notice of Informal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☑ Interview Summary (PTO-413),	
2. Thouse of Branchorson's Falling Hower (1 10 040)	Paper No./Mail Date	
Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. ⊠ Examiner's Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. Examiner's Statement of Reasons for Allows	ance
	9. Other	
·	in of	
	Eric Coleman Primary Examiner	

U.S. Patent and Trademark Office PTOL-37 (Rev. 08-06)

Notice of Allowability

Application/Control Number: 09/858,308

Art Unit: 2183

7,032,031--;

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Pursuant to MPEP 1302.04 the specification has been amended as follows:

In page 1 (paragraph 0002, line 1) after "Ser. No." insert -09/858309--;

In page 1 (paragraph 0002, line 3) after "herewith" insert – now U.S. Patent No.

In page 1 (paragraph 0003, line 1) after "Ser. No." insert -09/858323--;

In page 1 (paragraph 0003), line 3) after "herewith" insert -- now U.S. Patent No. 7,114,008--;

In page 1 (paragraph 0004, line 1) after "Ser. No." insert -09/858324--;

In page 1 (paragraph 0004, line 4) after "herewith" insert -- now U.S. Patent No. 7,082,502--.

Authorization for this examiner's amendment was given in a telephone interview with James L. Katz on January 29,2007.

The application has been amended as follows: In the claims:

In claim 34, (line 12) after "wherein said" insert –first--;

In claim 34 (line 12) after "and said" delete "co-processor" and replace therewith --second processor--.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric Coleman whose telephone number is (571) 272-4163. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Chan can be reached on (571) 272-4162. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

EC

ERIC COLEMAN
PRIMARY EXAMINED

	OIPE 40	Application N	0.	Applicant(s)		
Interview Summarv		09/858,308		NAJAM ET AL.		
interview Summary	FEB 0 7 2007	Examiner		Art Unit		
	A CONTRACTOR	Eric Coleman		2183		
All participants (applicant, applicant's repr	resentative, PTO	personnel):	,			
(1) Eric Coleman.		(3)				
(2) <u>James L. Katz (Reg.No. 42,711)</u> . (4)						
Date of Interview: 29 January 2007.						
Type: a)⊠ Telephonic b)⊡ Video c)⊡ Personal [copy given to: 1		2) <mark> applicant's</mark>	s representative			
Exhibit shown or demonstration conducte If Yes, brief description:	d: d)∐ Yes	e)⊠ No.				
Claim(s) discussed: <u>34</u> .				•		
Identification of prior art discussed: <u>NA</u> .						
Agreement with respect to the claims f)⊠	was reached. g	ı)⊡ was not re	ached. h)∐ N	/A.		
Substance of Interview including description reached, or any other comments: Counse cure a possible 112 second paragraph procondition for allowance. (A fuller description, if necessary, and a callowable, if available, must be attached, allowable is available, a summary thereof	el and Examiner of oblem to be imple opposed the amend Also, where no c	iscussed clain emented by Exa lments which the opy of the ame	n 34 and both a aminers amend ne examiner agi	greed to a claim change to ment to put to the case in reed would render the claims		
THE FORMAL WRITTEN REPLY TO THE INTERVIEW. (See MPEP Section 713.04 GIVEN A NON-EXTENDABLE PERIOD O INTERVIEW DATE, OR THE MAILING DATE A STATEMENT OF THE SUBSTANCE REQUIREMENTS ON REVERSE SIDE OF ON ATTACH). If a reply to the F THE LONGER ATE OF THIS INT CE OF THE INTE	last Office act OF ONE MON ERVIEW SUM	ion has already TH OR THIRTY MARY FORM, V	been filed, APPLICANT IS ODAYS FROM THIS WHICHEVER IS LATER, TO		
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Examiner Note: You must sign this form unles Attachment to a signed Office action.	ss it is an	. <u>-</u>		ature, if required		

U.S. Patent and Trademark Office PTOL-413 (Rev. 04-03)

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed.
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner.
 - (The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

ALEXANDRIA, VA 22313-1450 IF UNDELIVERABLE RETURN IN TEN DAYS "U"S" DEPARTMENT OF COMMERCE COMMISSIONER FOR PATENTS P.O. BOX 1450

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